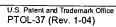
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Notice of Allowability	Application No.	ication No. Applicant(s)		
	09/681,575	QUINN, WILLIAM JOSEPH		
	Examiner	Art Unit		
	Dwin M Craig	2123		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT IN of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in 5) or other appropriate commur RIGHTS. This application is su	this application. If not incl nication will be mailed in d	uded	
1. ☐ This communication is responsive to 12/23/2004.				
2. ☑ The allowed claim(s) is/are <u>1-50</u> .				
3. The drawings filed on are accepted by the Examin	er.			
 4. ☐ Acknowledgment is made of a claim for foreign priority to a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the certified copies of the certified copies not received: 	ve been received. ve been received in Application	No	ication from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a	a reply complying with the	requirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAN ves reason(s) why the oath or c	MINER'S AMENDMENT of declaration is deficient.	r NOTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") mu	ıst be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date				
(b) ⊠ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 4/4/05.				
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the	drawings in the front (not t	the back) of	
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATER	RIAL must be submitted	I. Note the	
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ☐ Interview Sun Paper No./M 08), 7. ☐ Examiner's Ai	ail Date mendment/Commen tatement of Reasons for A		





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DETAILED ACTION

And

NOTICE OF ALLOWANCE

1. Claims 1-50 have been allowed.

Drawings

2. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because the current drawings are informal, the drawings are marked up by hand and the lines are to thin. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance:

The following limitation, in combination with other limitation is allowable over the prior art, wherein said defining includes generating a function block applied to control a target system that cannot be controlled by applying Cause and Effect logic."

Further, where the Applicant argued on page 14 of the 12/23/2004 response, "Klapper et al. does not describe or suggest a method for Cause and Effect logic as recited in Claim 1. Specifically, Klapper et al. do(es) sic not describe or suggest a formal methodology for specification of functional requirements for a target system

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based upon Cause and Effect notation and function blocks where defining includes generating a function block applied to control target system(s) sic that cannot be controlled by applying the Cause and Effect notation."

The combination of instant amendments to independent claims 1, 24 and 47 and the arguments put forth on pages 14 and 15 of the 12/23/2004 response have been persuasive and the Examiner withdraws the earlier 35 U.S.C. 102(a) rejections of those claims.

- 3.1 Dependent claims 2-23, 25-46 and 48-50 are allowed as they depend upon an allowed base claim.
- 3.2 Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

"Cause-effect graphing analysis and validation requirements" by Khenaidoo Nursimulu and Robert L. Probert discloses *Cause-Effect* graphing methodologies.

"On the experience of using cause-effect graphs for software specification and test generation" by Amit Paradkar discloses methods of using cause-effect graphs.

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4.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwin M Craig whose telephone number is (571) 272-3710. The examiner can normally be reached on 10:00 - 6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on (571)272-3716. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DMC

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